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4. First aid measures

First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
- Notes to physician** : Not available.
- Specific treatments** : Not available.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂ extinguisher or spray.
- Special exposure hazards** : Highly flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂).
- Special protective equipment for fire-fighters** : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

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|----------------------------|---|
| Storage | : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). |
| Packaging materials | |
| Recommended | : Use original container. |
| Specific uses | : Not available. |

8. Exposure controls/personal protection

| <u>Ingredient name</u> | <u>Occupational exposure limits</u> |
|--|--|
| <u>United Kingdom (UK)</u> Dimethoxymethane | EH40-WEL (United Kingdom (UK), 1/2005). STEL: 3950 mg/m ³ 15 minute(s). Form: All forms STEL: 1250 ppm 15 minute(s). Form: All forms TWA: 3160 mg/m ³ 8 hour(s). Form: All forms TWA: 1000 ppm 8 hour(s). Form: All forms |

Exposure controls

Occupational exposure controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : A respirator is not needed under normal and intended conditions of product use. Ventilation is normally required when handling or using this product.

Hand protection : Butyl rubber gloves. Permeation time >= 4 hours:

Eye protection : splash goggles

Skin protection : Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance

Physical state : Liquid. (Jelly-like precipitate liquid.)

Colour : Colorless to white (Light.)

Odour : Characteristic. (Strong.)

Important health, safety and environmental information

pH : Not applicable.

Melting point : May start to solidify at -49.2°C (-56.6°F) based on data for: propylene carbonate. Weighted average: -96.61°C (-141.9°F)

Boiling point : >35°C (95°F)

Flash point : Closed cup: Between -18°C (0°F) and 23°C (73°F). (Pensky-Martens.)

Flammability (solid, gas) : Flammable.

Explosive properties : Not available.

Explosion Limits : The greatest known range is Lower: 4.7% Upper: 21% (propylene carbonate)

Oxidising properties : Not applicable.

Relative density : 1 g/cm³ (20°C / 68°F)

Solubility : Partially soluble in methanol, diethyl ether, n-octanol, acetone.
Insoluble in cold water, hot water.

Viscosity : Dynamic: The highest known value is 0.6 cP (Ethyleneglycolmethylene ether)
Kinematic: 210 cSt

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Other information

Auto-ignition temperature : The lowest known value is 236.9°C (458.4°F) (Dimethoxymethane).

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Avoid all possible sources of ignition (spark or flame).
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂).

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin Contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Acute toxicity

| <u>Ingredient name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|----------------------------------|-------------|---------------|--------------|----------------|
| 1,3-Dioxolane | LD50 | 5200 mg/kg | Oral | Rabbit |
| | LD50 | 3200 mg/kg | Oral | Mouse |
| | LD50 | 3000 mg/kg | Oral | Rat |
| Dimethoxymethane | LD50 | >7950 mg/kg | Oral | Rat |
| | LD50 | 29000 mg/kg | Oral | Rat |
| propylene carbonate | LD50 | 20700 mg/kg | Oral | Mouse |
| | LD50 | >23780 mg/kg | Dermal | Rabbit |
| | LD50 | >5000 mg/kg | Oral | Rat |
| butanedioic acid, dimethyl ester | LD50 | >5000 mg/kg | Dermal | Rabbit |
| | LD50 | >2250 mg/kg | Oral | Rat |
| hexanedioic acid, dimethyl ester | LD50 | >2250 mg/kg | Oral | Rat |
| | LD50 | >200 mg/kg | Dermal | Rabbit |

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other adverse effects : Not available.

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12. Ecological information

Ecotoxicity data

| <u>Ingredient name</u> | <u>Species</u> | <u>Period</u> | <u>Result</u> |
|------------------------|--------------------------------|---------------|---------------|
| Dimethoxymethane | Pimephales promelas (LC50) | 96 hour(s) | 6990 mg/l |
| propylene carbonate | Cyprinus carpio (LC50) | 96 hour(s) | >1000 mg/l |
| | Scenedesmus subspicatus (IC50) | 72 hour(s) | >900 mg/l |
| | Daphnia (EC50) | 48 hour(s) | >1000 mg/l |

No known significant effects or critical hazards.




Other adverse effects

13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Waste classification** : Not applicable.
: Not available.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

| <u>Regulatory information</u> | <u>UN number</u> | <u>Proper shipping name</u> | <u>Class</u> | <u>Packing group</u> | <u>Label</u> | <u>Additional Information</u> |
|-------------------------------|------------------|--|--------------|----------------------|---|--|
| ADR/RID Class | 3271 | UN3271, ETHERS N.O.S. (Ethyleneglycol Methylene Ether, 67%, mixture), class 3, II, ADR mixture (Ethyleneglycolmethylene ether) | 3 | II |  | Hazard identification number 33 Limited quantity LQ4 Remarks Limited quantity for upto 3 liter inner packing |
| ADN Class | 3271 | UN 3271, ETHERS N.O.S. (Ethyleneglycol Methylene Ether, mixture), class 3, II, ADNR (Ethyleneglycolmethylene ether) | 3 | II |  | Remarks Limited quantity for upto 3 litre inner packing |
| IMDG Class | 3271 | "dangerous goods in limited quantities of class 3" UN 3271, PG III mixture (Ethyleneglycolmethylene ether) | 3 | II |  | Emergency schedules (EmS) F-E, S-D Remarks Limite quantity for upto 1 litre inner packing |

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|-----------------------|------|--|---|----|---|---|
| IATA-DGR Class | 3271 | ETHERS N.O.S. (Ethyleneglycol Methylene Ether, 67%, mixture), class 3, UN 3271, PG II (+<23°C) (Ethyleneglycolmethylene ether) | 3 | II |  | - |
|-----------------------|------|--|---|----|---|---|

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Highly flammable

Risk Phrases :

R11- Highly flammable.

Safety Phrases :

S2- Keep out of the reach of children.
S16- Keep away from sources of ignition - No smoking.
S24- Avoid contact with skin.
S29- Do not empty into drains.
S37- Wear suitable gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.

Other EU regulations :

Not applicable.

Product use :

Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Consumer applications.

Other EU regulations

Tactile warning of danger :

Yes, applicable.

EC Statistical classification (Tariff Code) :

32089091

Ingredients identification information :

Not applicable.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) :

R11- Highly flammable.
R36- Irritating to eyes.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) :

F - Highly flammable
Xi - Irritant

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This safety data sheet is prepared in accordance with EU
directive 91/155/EC amended by Directive 2001/58/EC



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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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